TECHNICAL DATA SHEET
MOSFLEX WATER-BASED PEELABLE PROTECTIVE COATING

Date of Issue: 24.07.2026 **Revision Date: 24.07.2026** **Revision No: 0.0**

What is MOSFLEX™?

MOSFLEX™ is a water-based, peelable protective coating formulated with **hybrid polymer technology**, developed to provide temporary protection for sensitive surfaces throughout the entire process from manufacturing to installation.

Following application, the controlled evaporation of water creates a **high-integrity, elastic, and durable protective film** on the surface. The resulting film provides temporary protection against dirt, paint splashes, plaster, mortar, cement, metal dust, welding spatter, light mechanical abrasion, and similar external factors.

Once the work is completed, the coating can be **easily peeled away from the surface in a single piece** under appropriate application conditions. This reduces the need for additional cleaning procedures while helping to preserve the quality and appearance of the protected surface.

MOSFLEX™ has been specifically developed to provide reliable temporary protection for **high-quality architectural surfaces** during manufacturing, transportation, and installation.

In modern manufacturing and construction projects, protecting surfaces until final handover is critical in terms of **quality, time, and cost efficiency**.

Conventional protection methods such as masking tapes, PE films, and similar materials may prove inadequate in many applications due to the high labor requirements on large surface areas, application difficulties, the potential for adhesive residue, and inconsistent protection.

MOSFLEX™ has been developed to address these challenges as a **professional temporary surface protection system** that can be rapidly applied over large areas, provides uniform protection, and can be easily removed once the work is completed.

INTENDED USE

MOSFLEX™ has been developed to help preserve the **aesthetic appearance and physical integrity of surfaces** throughout the entire process, from manufacturing to final delivery to the end user.

Primary areas of application include:

- Glass processing facilities
- Façade system manufacturing
- Aluminium joinery and profile manufacturing
- Composite panel applications
- PVC profile manufacturing
- Metal processing facilities
- On-site installation and construction applications
- Storage and logistics operations
- Protection during transportation
- Temporary surface protection prior to final product delivery

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KEY FEATURES

Product Features

- Hybrid polymer technology
- Water-based formulation
- Low VOC content
- Solvent-free formulation
- Low odor
- Uniform film formation
- Flexible protective film
- Peelable film structure allowing removal in a single piece
- Suitable for application by brush, roller, and airless spray
- Suitable for indoor and outdoor applications

Protection Against

MOSFLEX™ provides temporary protection against the following contaminants and external factors:

- Paint splashes and overspray
- Welding spatter
- Cement residues
- Mortar
- Plaster
- Construction dust
- Metal grinding dust
- Light mechanical abrasion
- Surface contamination

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APPLICATION SURFACES

MOSFLEX™ has been developed for use on the following surfaces:

Surface	*Suitability*
Float Glass	Suitable
Tempered Glass	Suitable
Laminated Glass	Suitable
Insulating Glass Units (IGUs)	Suitable
Aluminium Profiles	Suitable
Powder-Coated Aluminium	Suitable
Stainless Steel	Suitable
Composite Panels	Suitable
PVC Profiles	Suitable

TECHNICAL PROPERTIES

The values below represent typical laboratory test results.

Property	*Test Method*	*Unit*	*Typical Value*
Binder System	–	–	Hybrid Polymer System
Appearance	Visual Inspection	–	Homogeneous, blue viscous liquid
Color	Visual Inspection	–	Blue
Density (23 °C)	ASTM D1475	g/cm^3	1.02
pH (23 °C)	ASTM E70	–	4–5
Brookfield Viscosity (25 °C)	ASTM D2196	mPa·s	2183
Recommended Wet Film Thickness	–	µm	350
Touch Dry (23 °C / 50% RH)	ASTM D1640	min	30
Full Cure	ASTM D1640	h	24
Application Temperature	–	°C	+5 to +35
Shelf Life	–	months	12

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APPLICATION INSTRUCTIONS

- **Surface Preparation**

The surface to be coated must be **dry, clean, sound, and free from contaminants**.

Before application, the following must be completely removed from the surface:

- Dust
- Oil
- Grease
- Silicone residues
- Loose particles
- Curing compounds
- Any other contaminants that may adversely affect adhesion

- **Product Preparation**

MOSFLEX™ is supplied **ready to use**.

Prior to application, the product should be mixed using a **low-speed mechanical mixer** until a homogeneous consistency is achieved. **Do not add water, solvents, thinners, or any other additives** to the product.

- **Application Equipment**

MOSFLEX™ can be applied using the following equipment:

- Air-assisted spray system
- Roller
- Brush

- **Drying and Film Formation**

MOSFLEX™ is a water-based coating that dries through a physical drying mechanism. Film formation occurs through the controlled evaporation of water following application, allowing the hybrid polymer system to form a continuous protective film.

Drying time may vary depending on environmental and application conditions, including ambient temperature, relative humidity, air circulation, and applied film thickness.

Removal of the coating is not recommended until the film has fully formed.

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Air Spray Application

Recommended application method for **large and uniform surfaces**.

Parameter	***Recommendation***
Nozzle Diameter	2.8 mm
Fluid Pressure	Approx. 2.5 bar
Air Pressure	Approx. 4.5 bar
Paint Hose Internal Diameter	≥ 13 mm

The product should be applied in **two overlapping coats**. The second coat should be applied after the first coat has become **touch-dry**.

Roller Application

Suitable for **small- to medium-sized application areas**.

- The use of a **long-nap roller** is recommended.
- A **two-coat application** is recommended to achieve a uniform film thickness.
- The second coat should be applied after the first coat has become **touch-dry**.

COVERAGE

The values below represent **theoretical coverage** calculated under the recommended application conditions. Actual coverage may vary depending on surface profile, application method, film thickness, equipment settings, and application technique.

Parameter	***Value***
Recommended Number of Coats	≥ 2 coats
Recommended Dry Film Thickness (DFT)	Approx. **350 µm (0.35 mm)**
Theoretical Coverage	Approx. **3–5 m^2/L**

Notes

- The stated coverage values are theoretically calculated for **smooth, clean, and non-porous surfaces**.
- Surface roughness, absorbency, application method, and operator technique may affect actual coverage.
- To achieve **optimum peelability performance**, the recommended film thickness should be maintained.

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PACKAGING

Standard packaging:

- **15 kg** plastic pail

SHELF LIFE

12 months in the original, unopened packaging when stored under the recommended storage conditions.

STORAGE

- Store at temperatures between **+5 °C and +30 °C**.
- **Protect from freezing.**
- Keep away from **direct sunlight**.
- Keep the container **tightly closed after use**.